

Sept. 11, 2017 **Mixtures**

- A mixture is a substance made by combining two or more different materials in such a way that no chemical reaction occurs.

Air - 16%  $O_2$  78%  $N_2$  5%  $CO_2$  2%  $CO$  Methane.  $CH_4$

average 10's.


Ratio changes.

2 types: **Homogenous Mixture (Solution)**

- Mixture where the two different substances that are combined together are mixed very well.
- Any portion of the sample has the same properties and composition.
- Example: Salt Water Milk

NaCl - Salt.  
 $H_2O$  - water  
Sodium Chlorine  
2 Hydrogen 1 oxygen.  
Salt water


5% salt  
95% water



B **Heterogeneous Mixture**

- Mixture where the different parts or each substance can be separated physically.
- Different parts are visible.
- Example: Toppings on a Pizza  
Chocolate chip cookie  
Salad

compound for chocolate.



Test / Quiz?

<ul style="list-style-type: none"> <li>Salt</li> <li>Sugar</li> <li>Wood</li> <li>Rock</li> <li>Water</li> <li>Milk</li> <li>Plastic</li> <li>Glass</li> <li>Mercury</li> </ul>	<ul style="list-style-type: none"> <li>Apple Juice</li> <li>Syrup</li> <li>Gold</li> <li>Air</li> <li>Oxygen</li> <li>Silver</li> <li>Cookies</li> <li>Cake</li> <li>Sand</li> </ul>
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with bark white. Rock

PC  
PC  
M  
PC

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Classify the following as:

a) pure or mixture P/m

b) element, compound, heterogeneous or homogeneous mixture e c H S